

Lincoln J Lauhon

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23,078
ext. citations

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#	Paper	IF	Citations
178	Growth of nanowire superlattice structures for nanoscale photonics and electronics. <i>Nature</i> , 2002 , 415, 617-20	50.4	2339
177	Emerging device applications for semiconducting two-dimensional transition metal dichalcogenides. <i>ACS Nano</i> , 2014 , 8, 1102-20	16.7	1909
176	Logic gates and computation from assembled nanowire building blocks. <i>Science</i> , 2001 , 294, 1313-7	33.3	1847
175	Epitaxial core-shell and core-multishell nanowire heterostructures. <i>Nature</i> , 2002 , 420, 57-61	50.4	1802
174	Effective passivation of exfoliated black phosphorus transistors against ambient degradation. <i>Nano Letters</i> , 2014 , 14, 6964-70	11.5	1117
173	Diameter-controlled synthesis of single-crystal silicon nanowires. <i>Applied Physics Letters</i> , 2001 , 78, 2214-2216	3.4	974
172	Carbon nanomaterials for electronics, optoelectronics, photovoltaics, and sensing. <i>Chemical Society Reviews</i> , 2013 , 42, 2824-60	58.5	941
171	High-resolution detection of Au catalyst atoms in Si nanowires. <i>Nature Nanotechnology</i> , 2008 , 3, 168-73	28.7	537
170	Gate-tunable memristive phenomena mediated by grain boundaries in single-layer MoS ₂ . <i>Nature Nanotechnology</i> , 2015 , 10, 403-6	28.7	426
169	Direct measurement of dopant distribution in an individual vapour-liquid-solid nanowire. <i>Nature Nanotechnology</i> , 2009 , 4, 315-9	28.7	358
168	Growth and transport properties of complementary germanium nanowire field-effect transistors. <i>Applied Physics Letters</i> , 2004 , 84, 4176-4178	3.4	325
167	Band-like transport in high mobility unencapsulated single-layer MoS ₂ transistors. <i>Applied Physics Letters</i> , 2013 , 102, 173107	3.4	316
166	Gate-tunable carbon nanotube-MoS ₂ heterojunction p-n diode. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013 , 110, 18076-80	11.5	304
165	Hybrid, Gate-Tunable, van der Waals p-n Heterojunctions from Pentacene and MoS ₂ . <i>Nano Letters</i> , 2016 , 16, 497-503	11.5	240
164	Demonstration of an electrochemical liquid cell for operando transmission electron microscopy observation of the lithiation/delithiation behavior of Si nanowire battery anodes. <i>Nano Letters</i> , 2013 , 13, 6106-12	11.5	232
163	Direct observation of the quantum tunneling of single hydrogen atoms with a scanning tunneling microscope. <i>Physical Review Letters</i> , 2000 , 85, 4566-9	7.4	216
162	Influence of stoichiometry on the optical and electrical properties of chemical vapor deposition derived MoS ₂ . <i>ACS Nano</i> , 2014 , 8, 10551-8	16.7	209

161	Semiconductor nanowire heterostructures. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2004 , 362, 1247-60	3	199
160	Three-dimensional nanoscale composition mapping of semiconductor nanowires. <i>Nano Letters</i> , 2006 , 6, 181-5	11.5	197
159	Low-frequency electronic noise in single-layer MoS ₂ transistors. <i>Nano Letters</i> , 2013 , 13, 4351-5	11.5	188
158	Vibrationally mediated negative differential resistance in a single molecule. <i>Physical Review Letters</i> , 2000 , 85, 1918-21	7.4	177
157	Near-field scanning photocurrent microscopy of a nanowire photodetector. <i>Applied Physics Letters</i> , 2005 , 87, 043111	3.4	174
156	Symmetry selection rules for vibrationally inelastic tunneling. <i>Physical Review Letters</i> , 2001 , 86, 2593-6	7.4	172
155	Elucidating the Photoresponse of Ultrathin MoS ₂ Field-Effect Transistors by Scanning Photocurrent Microscopy. <i>Journal of Physical Chemistry Letters</i> , 2013 , 4, 2508-2513	6.4	169
154	Direct correlation of structural domain formation with the metal insulator transition in a VO ₂ nanobeam. <i>Nano Letters</i> , 2009 , 9, 4527-32	11.5	166
153	A synergistic assembly of nanoscale lamellar photoconductor hybrids. <i>Nature Materials</i> , 2009 , 8, 68-75	27	160
152	Single-Molecule Chemistry and Vibrational Spectroscopy: Pyridine and Benzene on Cu(001). <i>Journal of Physical Chemistry A</i> , 2000 , 104, 2463-2467	2.8	149
151	Single-molecule vibrational spectroscopy and microscopy: CO on Cu(001) and Cu(110). <i>Physical Review B</i> , 1999 , 60, R8525-R8528	3.3	145
150	Stoichiometry engineering of monoclinic to rutile phase transition in suspended single crystalline vanadium dioxide nanobeams. <i>Nano Letters</i> , 2011 , 11, 1443-7	11.5	141
149	Fundamental performance limits of carbon nanotube thin-film transistors achieved using hybrid molecular dielectrics. <i>ACS Nano</i> , 2012 , 6, 7480-8	16.7	129
148	Alternative catalysts for VSS growth of silicon and germanium nanowires. <i>Journal of Materials Chemistry</i> , 2009 , 19, 849		124
147	Electronic origin for the phase transition from amorphous Li(x)Si to crystalline Li ₁₅ Si ₄ . <i>ACS Nano</i> , 2013 , 7, 6303-9	16.7	117
146	Investigation of band-offsets at monolayer-multilayer MoS ₂ junctions by scanning photocurrent microscopy. <i>Nano Letters</i> , 2015 , 15, 2278-84	11.5	115
145	Nanowire Heterostructures. <i>Annual Review of Materials Research</i> , 2013 , 43, 451-479	12.8	115
144	Effects of temperature and other experimental variables on single molecule vibrational spectroscopy with the scanning tunneling microscope. <i>Review of Scientific Instruments</i> , 2001 , 72, 216-223	1.7	105

143	Nonuniform Nanowire Doping Profiles Revealed by Quantitative Scanning Photocurrent Microscopy. <i>Advanced Materials</i> , 2009 , 21, 3067-3072	24	104
142	Ordered stacking fault arrays in silicon nanowires. <i>Nano Letters</i> , 2009 , 9, 2774-9	11.5	104
141	Relative influence of surface states and bulk impurities on the electrical properties of Ge nanowires. <i>Nano Letters</i> , 2009 , 9, 3268-74	11.5	102
140	Broadband plasmonic microlenses based on patches of nanoholes. <i>Nano Letters</i> , 2010 , 10, 4111-6	11.5	100
139	Control and characterization of a multistep unimolecular reaction. <i>Physical Review Letters</i> , 2000 , 84, 1527-30	3.0	98
138	Dendritic Nanowire Growth Mediated by a Self-Assembled Catalyst. <i>Advanced Materials</i> , 2005 , 17, 598-602	16.4	91
137	Low-Temperature Atomic Layer Deposition of MoS Films. <i>Angewandte Chemie - International Edition</i> , 2017 , 56, 4991-4995	16.4	89
136	Three-dimensional mapping of quantum wells in a GaN/InGaN core-shell nanowire light-emitting diode array. <i>Nano Letters</i> , 2013 , 13, 4317-25	11.5	89
135	Quantitative Measurement of the Electron and Hole Mobility-Lifetime Products in Semiconductor Nanowires. <i>Nano Letters</i> , 2006 , 6, 948-952	11.5	87
134	Space-charge-limited current in nanowires depleted by oxygen adsorption. <i>Applied Physics Letters</i> , 2006 , 89, 143102	3.4	83
133	Nonuniform doping distribution along silicon nanowires measured by Kelvin probe force microscopy and scanning photocurrent microscopy. <i>Applied Physics Letters</i> , 2009 , 95, 092105	3.4	77
132	Obtaining uniform dopant distributions in VLS-grown Si nanowires. <i>Nano Letters</i> , 2011 , 11, 183-7	11.5	75
131	Spatial mapping of efficiency of GaN/InGaN nanowire array solar cells using scanning photocurrent microscopy. <i>Nano Letters</i> , 2013 , 13, 5123-8	11.5	68
130	Large-area, low-voltage, antiambipolar heterojunctions from solution-processed semiconductors. <i>Nano Letters</i> , 2015 , 15, 416-21	11.5	68
129	Atom probe tomography of a-axis GaN nanowires: analysis of nonstoichiometric evaporation behavior. <i>ACS Nano</i> , 2012 , 6, 3898-906	16.7	65
128	Displacement detection of silicon nanowires by polarization-enhanced fiber-optic interferometry. <i>Applied Physics Letters</i> , 2008 , 93, 193110	3.4	65
127	Single molecule thermal rotation and diffusion: Acetylene on Cu(001). <i>Journal of Chemical Physics</i> , 1999 , 111, 5633-5636	3.9	64
126	Plasmonic Lattice Lenses for Multiwavelength Achromatic Focusing. <i>ACS Nano</i> , 2016 , 10, 10275-10282	16.7	63

125	Template-Assisted Scalable Nanowire Networks. <i>Nano Letters</i> , 2018 , 18, 2666-2671	11.5	61
124	Alloy Fluctuations Act as Quantum Dot-like Emitters in GaAs-AlGaAs Core-Shell Nanowires. <i>ACS Nano</i> , 2015 , 9, 8335-43	16.7	60
123	Nanomechanical detection of nuclear magnetic resonance using a silicon nanowire oscillator. <i>Physical Review B</i> , 2012 , 85,	3.3	60
122	Measuring Three-Dimensional Strain and Structural Defects in a Single InGaAs Nanowire Using Coherent X-ray Multiangle Bragg Projection Ptychography. <i>Nano Letters</i> , 2018 , 18, 811-819	11.5	59
121	Large-area, electronically monodisperse, aligned single-walled carbon nanotube thin films fabricated by evaporation-driven self-assembly. <i>Small</i> , 2013 , 9, 45-51	11	59
120	Spatially resolved plasmonically enhanced photocurrent from Au nanoparticles on a Si nanowire. <i>Nano Letters</i> , 2011 , 11, 2731-4	11.5	59
119	Electronic and vibrational excitation of single molecules with a scanning tunneling microscope. <i>Surface Science</i> , 2000 , 451, 219-225	1.8	59
118	Ferromagnetic self-assembled quantum dots on semiconductor nanowires. <i>Nano Letters</i> , 2006 , 6, 50-4	11.5	58
117	Quantitatively enhanced reliability and uniformity of high- κ dielectrics on graphene enabled by self-assembled seeding layers. <i>Nano Letters</i> , 2013 , 13, 1162-7	11.5	57
116	Tomographic analysis of dilute impurities in semiconductor nanostructures. <i>Journal of Solid State Chemistry</i> , 2008 , 181, 1642-1649	3.3	57
115	Langevin-like giant magnetoresistance in Co-Cu superlattices. <i>Physical Review B</i> , 1994 , 49, 1521-1523	3.3	57
114	Truly Electroforming-Free and Low-Energy Memristors with Preconditioned Conductive Tunneling Paths. <i>Advanced Functional Materials</i> , 2017 , 27, 1702010	15.6	56
113	Silicon nanowire polytypes: identification by Raman spectroscopy, generation mechanism, and misfit strain in homostructures. <i>ACS Nano</i> , 2011 , 5, 8958-66	16.7	56
112	Vanadium oxide nanowire phase and orientation analyzed by Raman spectroscopy. <i>Journal of Applied Physics</i> , 2009 , 105, 034310	2.5	55
111	Demonstration of Confined Electron Gas and Steep-Slope Behavior in Delta-Doped GaAs-AlGaAs Core-Shell Nanowire Transistors. <i>Nano Letters</i> , 2015 , 15, 3295-302	11.5	53
110	Identification of an intrinsic source of doping inhomogeneity in vapor-liquid-solid-grown nanowires. <i>Nano Letters</i> , 2013 , 13, 199-206	11.5	53
109	Catalyst incorporation at defects during nanowire growth. <i>Nano Letters</i> , 2012 , 12, 167-71	11.5	53
108	Temperature dependent photoluminescence of single CdS nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 123123	3.4	51

107	Subwavelength lattice optics by evolutionary design. <i>Nano Letters</i> , 2014 , 14, 7195-200	11.5	49
106	Electron-rich driven electrochemical solid-state amorphization in Li-Si alloys. <i>Nano Letters</i> , 2013 , 13, 4511-165	11.5	45
105	Suppressing Ambient Degradation of Exfoliated InSe Nanosheet Devices via Seeded Atomic Layer Deposition Encapsulation. <i>Nano Letters</i> , 2018 , 18, 7876-7882	11.5	44
104	Scanning photocurrent microscopy analysis of Si nanowire field-effect transistors fabricated by surface etching of the channel. <i>Nano Letters</i> , 2009 , 9, 1903-8	11.5	43
103	Direct comparisons of rates for low temperature diffusion of hydrogen and deuterium on Cu(001) from quantum mechanical calculations and scanning tunneling microscopy experiments. <i>Journal of Chemical Physics</i> , 2001 , 115, 5620-5624	3.9	43
102	Composition analysis of single semiconductor nanowires using pulsed-laser atom probe tomography. <i>Applied Physics A: Materials Science and Processing</i> , 2006 , 85, 271-275	2.6	42
101	Correlating dopant distributions and electrical properties of boron-doped silicon nanowires. <i>Applied Physics Letters</i> , 2009 , 95, 162101	3.4	41
100	Vapor-solid-solid synthesis of Ge nanowires from vapor-phase-deposited manganese germanide seeds. <i>Journal of the American Chemical Society</i> , 2007 , 129, 10670-1	16.4	40
99	Diameter and polarization-dependent Raman scattering intensities of semiconductor nanowires. <i>Nano Letters</i> , 2012 , 12, 2266-71	11.5	39
98	Spatially resolved correlation of active and total doping concentrations in VLS grown nanowires. <i>Nano Letters</i> , 2013 , 13, 2598-604	11.5	39
97	Atom-Probe Tomography of Semiconductor Materials and Device Structures. <i>MRS Bulletin</i> , 2009 , 34, 738-743	3.2	38
96	Optical Control of Mechanical Mode-Coupling within a MoS ₂ Resonator in the Strong-Coupling Regime. <i>Nano Letters</i> , 2015 , 15, 6727-31	11.5	37
95	Self-Aligned van der Waals Heterojunction Diodes and Transistors. <i>Nano Letters</i> , 2018 , 18, 1421-1427	11.5	36
94	Extraordinary dynamic mechanical response of vanadium dioxide nanowires around the insulator to metal phase transition. <i>Nano Letters</i> , 2014 , 14, 1898-902	11.5	36
93	Origin of polytype formation in VLS-grown Ge nanowires through defect generation and nanowire kinking. <i>Nano Letters</i> , 2013 , 13, 3947-52	11.5	36
92	Direct measurement of individual deep traps in single silicon nanowires. <i>Nano Letters</i> , 2011 , 11, 2499-5021.5	11.5	36
91	Low-temperature photoluminescence imaging and time-resolved spectroscopy of single CdS nanowires. <i>Applied Physics Letters</i> , 2006 , 89, 053119	3.4	35
90	On the reliable analysis of indium mole fraction within In _x Ga _{1-x} N quantum wells using atom probe tomography. <i>Applied Physics Letters</i> , 2014 , 104, 152102	3.4	33

89	Direct detection of hole gas in Ge-Si core-shell nanowires by enhanced Raman scattering. <i>Nano Letters</i> , 2010 , 10, 4483-7	11.5	33
88	Local photocurrent mapping as a probe of contact effects and charge carrier transport in semiconductor nanowire devices. <i>Journal of Vacuum Science & Technology B</i> , 2006 , 24, 2172		33
87	Tuning Lasing Emission toward Long Wavelengths in GaAs-(In,Al)GaAs Core-Multishell Nanowires. <i>Nano Letters</i> , 2018 , 18, 6292-6300	11.5	33
86	Resonant Raman scattering from CdS nanowires. <i>Applied Physics Letters</i> , 2006 , 88, 043118	3.4	32
85	Dopant Diffusion and Activation in Silicon Nanowires Fabricated by ex Situ Doping: A Correlative Study via Atom-Probe Tomography and Scanning Tunneling Spectroscopy. <i>Nano Letters</i> , 2016 , 16, 4490-5007	11.5	32
84	In situ electron microscopy four-point electromechanical characterization of freestanding metallic and semiconducting nanowires. <i>Small</i> , 2014 , 10, 725-33	11	31
83	High-field transport and thermal reliability of sorted carbon nanotube network devices. <i>ACS Nano</i> , 2013 , 7, 482-90	16.7	31
82	Controlling the nonlinearity of silicon nanowire resonators using active feedback. <i>Applied Physics Letters</i> , 2009 , 95, 123116	3.4	31
81	STM Images and Chemisorption Bond Parameters of Acetylene, Ethynyl, and Dicarbon Chemisorbed on Copper. <i>Journal of Physical Chemistry B</i> , 2002 , 106, 8161-8171	3.4	31
80	Emergent Optoelectronic Properties of Mixed-Dimensional Heterojunctions. <i>Accounts of Chemical Research</i> , 2020 , 53, 763-772	24.3	30
79	Weibull Analysis of Dielectric Breakdown in a Self-Assembled Nanodielectric for Organic Transistors. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3292-3297	6.4	30
78	Syntaxial growth of Ge/Mn-germanide nanowire heterostructures. <i>Nano Letters</i> , 2008 , 8, 2669-73	11.5	30
77	Inducing and Observing the Abstraction of a Single Hydrogen Atom in Bimolecular Reactions with a Scanning Tunneling Microscope. <i>Journal of Physical Chemistry B</i> , 2001 , 105, 3987-3992	3.4	30
76	Evolutionary Design and Prototyping of Single Crystalline Titanium Nitride Lattice Optics. <i>ACS Photonics</i> , 2017 , 4, 606-612	6.3	28
75	Barrier height measurement of metal contacts to Si nanowires using internal photoemission of hot carriers. <i>Nano Letters</i> , 2013 , 13, 6183-8	11.5	26
74	Rational Control of Diffraction and Interference from Conformal Phase Gratings: Toward High-Resolution 3D Nanopatterning. <i>Advanced Optical Materials</i> , 2014 , 2, 1213-1220	8.1	26
73	Increased Yield and Uniformity of Vanadium Dioxide Nanobeam Growth via Two-Step Physical Vapor Transport Process. <i>Crystal Growth and Design</i> , 2012 , 12, 1383-1387	3.5	26
72	Metal-Free Carbon-Based Nanomaterial Coatings Protect Silicon Photoanodes in Solar Water-Splitting. <i>Nano Letters</i> , 2016 , 16, 7370-7375	11.5	25

71	Light and complex 3D MoS/graphene heterostructures as efficient catalysts for the hydrogen evolution reaction. <i>Nanoscale</i> , 2020 , 12, 2715-2725	7.7	25
70	Charge Separation at Mixed-Dimensional Single and Multilayer MoS/Silicon Nanowire Heterojunctions. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 16760-16767	9.5	23
69	Direct measurement of nanowire Schottky junction depletion region. <i>Applied Physics Letters</i> , 2011 , 99, 223511	3.4	23
68	The initiation and characterization of single bimolecular reactions with a scanning tunneling microscope. <i>Faraday Discussions</i> , 2000 , 249-55; discussion 257-75	3.6	23
67	Wafer-scale solution-derived molecular gate dielectrics for low-voltage graphene electronics. <i>Applied Physics Letters</i> , 2014 , 104, 083503	3.4	22
66	Growth of Ge Nanowires from AuCu Alloy Nanoparticle Catalysts Synthesized from Aqueous Solution. <i>Journal of Physical Chemistry Letters</i> , 2010 , 1, 3360-3365	6.4	22
65	Supersonic jet epitaxy of aluminum nitride on silicon (100). <i>Journal of Applied Physics</i> , 1996 , 79, 7667-7671	7.5	21
64	Spin transport and Hanle effect in silicon nanowires using graphene tunnel barriers. <i>Nature Communications</i> , 2015 , 6, 7541	17.4	20
63	Nanoscale Fourier-Transform Magnetic Resonance Imaging. <i>Physical Review X</i> , 2013 , 3,	9.1	20
62	Atomic Layer Deposition of Molybdenum Oxides with Tunable Stoichiometry Enables Controllable Doping of MoS ₂ . <i>Chemistry of Materials</i> , 2018 , 30, 3628-3632	9.6	20
61	Doping of Self-Catalyzed Nanowires under the Influence of Droplets. <i>Nano Letters</i> , 2018 , 18, 81-87	11.5	19
60	Enhanced radiative emission from monolayer MoS ₂ films using a single plasmonic dimer nanoantenna. <i>Applied Physics Letters</i> , 2017 , 111, 031101	3.4	18
59	Control of interlayer physics in 2H transition metal dichalcogenides. <i>Journal of Applied Physics</i> , 2017 , 122, 224302	2.5	17
58	Suppression of alloy fluctuations in GaAs-AlGaAs core-shell nanowires. <i>Applied Physics Letters</i> , 2016 , 109, 093105	3.4	17
57	High-Resolution Nanoscale Solid-State Nuclear Magnetic Resonance Spectroscopy. <i>Physical Review X</i> , 2018 , 8,	9.1	16
56	Lift-out procedures for atom probe tomography targeting nanoscale features in core-shell nanowire heterostructures. <i>Physica Status Solidi C: Current Topics in Solid State Physics</i> , 2014 , 11, 656-661		16
55	Quantum Transport and Sub-Band Structure of Modulation-Doped GaAs/AlAs Core-Superlattice Nanowires. <i>Nano Letters</i> , 2017 , 17, 4886-4893	11.5	16
54	Tomographic study of atomic-scale redistribution of platinum during the silicidation of Ni _{0.95} Pt _{0.05} /Si(100) thin films. <i>Applied Physics Letters</i> , 2009 , 94, 113103	3.4	15

53	Three-dimensional atomic-scale mapping of Pd in Ni _{1-x} Pd _x SiBi(100) thin films. <i>Applied Physics Letters</i> , 2007 , 91, 113106	3.4	15
52	Two-dimensional charge carrier distribution in MoS ₂ monolayer and multilayers. <i>Applied Physics Letters</i> , 2019 , 114, 101602	3.4	14
51	Atypical self-activation of Ga dopant for Ge nanowire devices. <i>Nano Letters</i> , 2011 , 11, 3108-12	11.5	14
50	Nonlinear Mode Coupling and One-to-One Internal Resonances in a Monolayer WS ₂ Nanoresonator. <i>Nano Letters</i> , 2019 , 19, 4052-4059	11.5	13
49	Nanowire Kinking Modulates Doping Profiles by Reshaping the Liquid-Solid Growth Interface. <i>Nano Letters</i> , 2017 , 17, 4518-4525	11.5	13
48	Low-Temperature Atomic Layer Deposition of MoS ₂ Films. <i>Angewandte Chemie</i> , 2017 , 129, 5073-5077	3.6	12
47	Molecular-Scale Characterization of Photoinduced Charge Separation in Mixed-Dimensional InSe-Organic van der Waals Heterostructures. <i>ACS Nano</i> , 2020 , 14, 3509-3518	16.7	12
46	Criteria and considerations for preparing atom-probe tomography specimens of nanomaterials utilizing an encapsulation methodology. <i>Ultramicroscopy</i> , 2018 , 184, 225-233	3.1	12
45	Energy Frontier Research Center for Solid-State Lighting Science: Exploring New Materials Architectures and Light Emission Phenomena. <i>Journal of Physical Chemistry C</i> , 2014 , 118, 13330-13345	3.8	12
44	Atomic structural analysis of nanowire defects and polytypes enabled through cross-sectional lattice imaging. <i>Small</i> , 2012 , 8, 1717-24	11	12
43	Identifying Excitation and Emission Rate Contributions to Plasmon-Enhanced Photoluminescence from Monolayer MoS ₂ Using a Tapered Gold Nanoantenna. <i>ACS Photonics</i> , 2017 , 4, 1602-1606	6.3	11
42	Charge Separation in Epitaxial SnS/MoS ₂ Vertical Heterojunctions Grown by Low-Temperature Pulsed MOCVD. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 40543-40550	9.5	11
41	Connecting Composition-Driven Faceting with Facet-Driven Composition Modulation in GaAs-AlGaAs Core-Shell Nanowires. <i>Nano Letters</i> , 2018 , 18, 5179-5185	11.5	11
40	Near-field microwave microscopy of high- κ oxides grown on graphene with an organic seeding layer. <i>Applied Physics Letters</i> , 2013 , 103, 243105	3.4	11
39	Multimodal X-ray imaging of grain-level properties and performance in a polycrystalline solar cell. <i>Journal of Synchrotron Radiation</i> , 2019 , 26, 1316-1321	2.4	11
38	He-Ion Microscopy as a High-Resolution Probe for Complex Quantum Heterostructures in Core-Shell Nanowires. <i>Nano Letters</i> , 2018 , 18, 3911-3919	11.5	11
37	Correlated high-resolution x-ray diffraction, photoluminescence, and atom probe tomography analysis of continuous and discontinuous In _x Ga _{1-x} N quantum wells. <i>Applied Physics Letters</i> , 2015 , 107, 022107	3.4	10
36	Correlated Chemical and Electrically Active Dopant Analysis in Catalyst-Free Si-Doped InAs Nanowires. <i>ACS Nano</i> , 2018 , 12, 1603-1610	16.7	10

35	Electron Tomography of Au-Catalyzed Semiconductor Nanowires. <i>Journal of Physical Chemistry C</i> , 2013 , 117, 1059-1063	3.8	10
34	A method for directly correlating site-specific cross-sectional and plan-view transmission electron microscopy of individual nanostructures. <i>Microscopy and Microanalysis</i> , 2012 , 18, 1410-8	0.5	10
33	Correlated Nanoscale Analysis of the Emission from Wurtzite versus Zincblende (In,Ga)As/GaAs Nanowire Core-Shell Quantum Wells. <i>Nano Letters</i> , 2019 , 19, 4448-4457	11.5	9
32	Quantitative statistical analysis of dielectric breakdown in zirconia-based self-assembled nanodielectrics. <i>ACS Nano</i> , 2012 , 6, 4452-60	16.7	9
31	Impact of Dopant Compensation on Graded p-n Junctions in Si Nanowires. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 128-34	9.5	8
30	Strain Mapping of CdTe Grains in Photovoltaic Devices. <i>IEEE Journal of Photovoltaics</i> , 2019 , 9, 1790-1799	3.7	8
29	Atom Probe Tomography Analysis of Ag Doping in 2D Layered Material (PbSe)(BiSe). <i>Nano Letters</i> , 2016 , 16, 6064-6069	11.5	8
28	Correlation and Morphology of Dopant Decomposition in Mn and Co Codoped Ge Epitaxial Films. <i>Journal of Physical Chemistry C</i> , 2012 , 116, 276-280	3.8	7
27	Three-Dimensional Atom-Probe Tomographic Studies of Nickel Monosilicide/Silicon Interfaces on a Subnanometer Scale. <i>ECS Transactions</i> , 2009 , 19, 303-314	1	7
26	Direct measurements of lateral variations of Schottky barrier height across "end-on" metal contacts to vertical Si nanowires by ballistic electron emission microscopy. <i>Nano Letters</i> , 2012 , 12, 694-8	11.5	6
25	Extrinsic and intrinsic photoresponse in monodisperse carbon nanotube thin film transistors. <i>Applied Physics Letters</i> , 2013 , 102, 083104	3.4	6
24	Broad-band high-gain room temperature photodetectors using semiconductor-metal nanofloret hybrids with wide plasmonic response. <i>Nanoscale</i> , 2019 , 11, 6368-6376	7.7	5
23	High resolution strain mapping of a single axially heterostructured nanowire using scanning X-ray diffraction. <i>Nano Research</i> , 2020 , 13, 2460-2468	10	5
22	Remote Doping of Scalable Nanowire Branches. <i>Nano Letters</i> , 2020 , 20, 3577-3584	11.5	5
21	Strain-Energy Release in Bent Semiconductor Nanowires Occurring by Polygonization or Nanocrack Formation. <i>ACS Nano</i> , 2019 , 13, 3730-3738	16.7	4
20	1-D Metal Nanobead Arrays within Encapsulated Nanowires via a Red-Ox-Induced Dewetting: Mechanism Study by Atom-Probe Tomography. <i>Nano Letters</i> , 2017 , 17, 7478-7486	11.5	4
19	Selective Area Regrowth Produces Nonuniform Mg Doping Profiles in Nonplanar GaN p-n Junctions. <i>ACS Applied Electronic Materials</i> , 2021 , 3, 704-710	4	4
18	Atom probe tomography of nanoscale architectures in functional materials for electronic and photonic applications. <i>Current Opinion in Solid State and Materials Science</i> , 2018 , 22, 171-187	12	4

17	transport measurements reveal source of mobility enhancement of MoS and MoTe during dielectric deposition. <i>ACS Applied Electronic Materials</i> , 2020 , 2, 1273-1279	4	3
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